



BICYCLE-PEDESTRIAN ADVISORY COMMITTEE (BPAC)

Regular Meeting

Thursday, March 21, 2019

3:00 pm

AGENDA

1. Call to Order
2. Roll Call
3. Comments from the Public
4. Approval of Agenda
5. Approval of Meeting Summary
 - *January 17, 2019 Regular Meeting*
6. Action Items
 - 6a. I-95 Multimodal Master Plan: A presentation of the I-95 Multimodal Master Plan by the Florida Department of Transportation.

Action: Review and recommend the proposed improvements for I-95, recommend with conditions, or do not recommend.
 - 6b. Transit Development Plan (TDP) Major Update Service Improvements: A presentation on the proposed transit service improvements in the TDP Major Update.

Action: Review and recommend the proposed transit service improvements, recommend with conditions, or do not recommend.
 - 6c. 2045 Projected Population for St. Lucie County: Review of the population of St. Lucie County projected for 2045.

Action: Review and recommend the projected population for St. Lucie County for 2045, recommend with conditions, or do not recommend.

7. Discussion Items

- 7a. Bicycle Facilities Map Update: Review of the **update to the TPO's Bicycle Facilities Map.**

Action: Discuss and provide comments to Staff.

8. Recommendations/Comments by Members

9. Staff Comments

10. Next Meeting: The next St. Lucie TPO BPAC meeting is a regular meeting scheduled for 3:00 pm on Thursday, May 23, 2019.

11. Adjourn

NOTICES

The St. Lucie TPO satisfies the requirements of various nondiscrimination laws and regulations including Title VI of the Civil Rights Act of 1964. Public participation is welcome without regard to race, color, national origin, age, sex, religion, disability, income, or family status. Persons wishing to express their concerns about nondiscrimination should contact Marceia Lathou, the Title VI/ADA Coordinator of the St. Lucie TPO, at 772-462-1593 or via email at lathoum@stlucieco.org.

Persons who require special accommodations under the Americans with Disabilities Act (ADA) or persons who require translation services (free of charge) should contact Marceia Lathou at 772-462-1593 at least five days prior to the meeting. Persons who are hearing or speech impaired may use the Florida Relay System by dialing 711.

Items not included on the agenda may also be heard in consideration of the best interests of **the public's health, safety, welfare, and as necessary to protect every person's right of access.** If any person decides to appeal any decision made by the St. Lucie TPO Advisory Committees with respect to any matter considered at a meeting, that person shall need a record of the proceedings, and for such a purpose, that person may need to ensure that a verbatim record of the proceedings is made which includes the testimony and evidence upon which the appeal is to be based.

Kreyol Ayisyen: Si ou ta renmen resevwa enfòmasyon sa a nan lang Kreyòl Aysiyen, tanpri rele nimewo 772-462-1593.

Español: Si usted desea recibir esta información en español, por favor llame al 772-462-1593.



Coco Vista Centre
466 SW Port St. Lucie Blvd. Suite 111
Port St. Lucie, Florida 34953
772-462-1593 www.stlucietpo.org

BICYCLE PEDESTRIAN ADVISORY COMMITTEE (BPAC)

REGULAR MEETING

DATE: Thursday, January 17, 2019
TIME: 3:00 pm
LOCATION: St. Lucie TPO
Coco Vista Centre
466 SW Port St. Lucie Boulevard, Suite 111
Port St. Lucie, Florida

MEETING SUMMARY

1. Call to Order

Chairman Gilmore called the meeting to order at 3:00 pm.

2. Roll Call

The roll call was taken via sign-in sheet and the following members were present:

Members Present

Vennis Gilmore, Chairman
Jennifer McGee, Vice Chair
Terry Davis
Joseph DeFronzo
Nancy Hess
Alan Love
Eddie Smidtsrod
Amanda Thompson
Larry Wallace

Representing

Fort Pierce Public Works
St. Lucie County ERD
Bicycling Resident
Bicycling Resident
Disabled Community
Disabled Community
Running/Hiking Resident
St. Lucie County ERD
FDOT

Others Present

Peter Buchwald
Ed DeFini
Yi Ding
Marceia Lathou
Rachel Harrison

Representing

St. Lucie TPO
St. Lucie TPO
St. Lucie TPO
St. Lucie TPO
Recording Specialist

3. Comments from the Public – None.

4. Approval of Agenda

* MOTION by Vice Chairwoman McGee to approve the agenda.

* * SECONDED by Mr. Davis Carried UNANIMOUSLY

5. Approval of Meeting Summary

- September 20, 2018 Regular Meeting

* MOTION by Mr. Love to approve the Meeting Summary.

* * SECONDED by Vice Chairwoman McGee Carried UNANIMOUSLY

6. Action Items

6a. Annual Officer Elections: Election of a Chairperson and a Vice Chairperson for the BPAC for 2019.

Mr. Buchwald invited the BPAC secretary to open the nominations for BPAC Chairperson for 2019.

* MOTION by Mr. Love to nominate Chairman Gilmore to serve as BPAC Chairperson for 2019.

* * SECONDED by Vice Chairwoman McGee

There were no other nominations and the nominations were closed.

* * MOTION to elect Chairman Gilmore to serve as Chairperson of the BPAC for 2019 Carried UNANIMOUSLY

The BPAC secretary was invited to continue the elections.

DRAFT

- * MOTION by Mr. Love to nominate Vice Chairwoman McGee to serve as Vice Chairperson of the BPAC for 2019.

- * * SECONDED by Mr. Davis

There were no other nominations and the nominations were closed.

- * MOTION to elect Vice Chairwoman McGee to serve as Vice Chairperson of the BPAC for 2019. Carried UNANIMOUSLY

6b. Transportation Alternatives Program (TAP) 2019 Grant Applications: Review and prioritization of the TAP grant applications for the 2019 grant cycle.

Mr. Buchwald summarized the types of projects for which TAP funding may be used and explained how and when the \$679,339 of funding available to the St. Lucie TPO for the 2019 grant cycle would be programmed. He detailed two TAP grant applications that had been submitted for consideration for the 2019 cycle, the Selvitz Road Sidewalk Project and the Bell Avenue and Sunrise Boulevard Sidewalk Project, and indicated that the Selvitz Road Project had been ranked higher according to the Transportation Alternatives (TA) Project Prioritization Methodology. Because of that ranking, Mr. Buchwald explained further, it was recommended that the Selvitz Road Project be prioritized for funding above the other project, with the Bell Avenue and Sunrise Boulevard Project receiving the remainder of the TPO's TAP funding for 2019 along with any excess TAP funding allocated by FDOT District 4 for 2019.

In response to Mr. Love's question, Mr. Buchwald clarified how the grant funding would be distributed between the two projects.

- * MOTION by Mr. Love to recommend the prioritization of the TAP grant applications for the 2019 grant cycle as presented.

- * * SECONDED by Vice Chairwoman McGee Carried UNANIMOUSLY

6c. Automated/Connected/Electric/Shared-Use (ACES) Vehicles for Transit Study: A presentation of the ACES Vehicles for Transit Study.

Mr. Buchwald noted the growing prominence of ACES vehicles within the transportation industry and the resulting task dedicated to the

subject in the TPO's Unified Planning Work Program (UPWP) before inviting Ms. Lathou to provide the presentation. Ms. Lathou began by defining ACES and describing how such "new mobility" would be incorporated into the ten-year Transit Development Plan. She shared some industry forecasts for driverless vehicles, gave examples of various levels of automation, and described the current and potential use of ACES technology within the transportation industry. Ms. Lathou outlined a number of public agency responses to ACES, focusing particularly on the recommendations of the St. Lucie County New Mobility Study, and then explained the recommendations for how the TPO might offer implementation assistance.

Ms. Thompson inquired about the absence of safety concerns from both the report and the presentation. Ms. Lathou clarified that the recommendations presently under consideration only pertained to whether the TPO should assist with facilitating transit automation; safety concerns would be discussed during future stakeholder meetings.

In response to Mr. Love's question, Ms. Lathou elaborated on the recommendation concerning public awareness and education.

Chairman Gilmore asked if the topic of liability were being discussed, and Ms. Lathou affirmed that the issue was being addressed by the ACES industry.

* MOTION by Mr. Love to recommend the selected recommendations in the ACES Vehicles for Transit Study for implementation assistance by the TPO.

* * SECONDED by Ms. Hess Carried UNANIMOUSLY

6d. South Causeway Bridge Reconfiguration Project: Review of the proposed South Causeway Bridge Reconfiguration Project and the Preferred Alternative and the plan for its reconsideration.

Mr. Buchwald indicated that the TPO Advisory Committees had previously requested that the issue of adding bicycle lanes to the South Causeway Bridge in Fort Pierce be re-examined by the TPO Board and that, consequently, it was necessary to make a recommendation for the Board to consider at its February 2019 meeting. Mr. Buchwald gave a brief history of the issue, describing its past reception by local agencies and community members, and explained that concerns about safety and potential congestion had

prevented the reconfiguration from going forward in 2012. He presented a number of conceptual plans that had been produced by the 2012 South Causeway Bridge Reconfiguration Study and explained that each alternative would reduce the number of travel lanes from four to two and maximize the bicycle and pedestrian accommodations without reducing vehicular service. Mr. Buchwald outlined the recommended public input plan and concluded with the suggestion that a Preferred Alternative be selected.

In response to Mr. Davis' question, Mr. Buchwald clarified that the alternative being recommended by TPO staff was the one presented in the South Causeway Bridge Reconfiguration Study as the Preferred Alternative/Exhibit 5, which would preserve the existing pedestrian lanes and concrete barriers while converting the two outside travel lanes to bicycle lanes through re-striping. He summarized some benefits of this configuration, noted the possibility of implementing it in stages, and commented on its likelihood of success relative to the other alternatives.

Mr. Smitsrod inquired about the future capacity needs of the bridge, and Mr. Buchwald explained that there is not expected to be significant growth on South Hutchinson Island because of the existing land use policies.

A discussion ensued regarding connectivity, with Mr. Davis remarking on the high quality of the bicycle accommodations on the rest of South Hutchinson Island. Ms. Thompson commented that bicyclists may also want to connect to the SunTrail to the north.

In answer to Vice Chairwoman McGee's question, Mr. Buchwald clarified that the public opinion survey would be administered on the TPO's website. He mentioned that CAC members would be attending upcoming meetings to speak in support of this item and urged BPAC members to do the same.

Mr. Wallace asked whether the proposal to eliminate lanes had been approved by FDOT, and Mr. Buchwald explained that the proposal had not yet been approved to move forward by the TPO Board.

In response to Vice Chairwoman McGee's request for feedback on cyclists' preferences for shared-use lanes versus dedicated lanes, Mr. Davis shared his personal preference for dedicated lanes and the need for barriers in addition to dedicated lanes at narrow situations such as bridges with no margin for error.

Ms. Thompson initiated a discussion regarding the use of buffer lanes to separate bicycles from cars, commenting that cyclists sometimes used the buffer lane rather than the dedicated bicycle lane. Mr. DeFronzo remarked that cars routinely drift into adjacent lanes, suggesting that barriers might better alleviate those safety concerns.

* MOTION by Vice Chairwoman McGee to recommend the Preferred Alternative and the plan for its reconsideration.

* * SECONDED by Mr. Davis Carried UNANIMOUSLY

7. Recommendations/Comments by Members – None.

8. Staff Comments – Mr. Buchwald thanked the members for their participation and requested their presence at upcoming meetings where the South Bridge reconfiguration would be discussed.

9. Next Meeting: The next St. Lucie TPO BPAC meeting is a regular meeting scheduled for 3:00 pm on Thursday, March 21, 2019.

10. Adjourn – The meeting was adjourned at 3:50 pm.

Respectfully submitted:

Approved by:

Rachel Harrison
Recording Specialist

Vennis Gilmore
Chairman



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AGENDA ITEM SUMMARY

Board/Committee: Bicycle-Pedestrian Advisory Committee (BPAC)

Meeting Date: March 21, 2019

Item Number: 6a

Item Title: I-95 Multimodal Master Plan

Item Origination: Florida Department of Transportation (FDOT)

UPWP Reference: Task 3.3 - Transportation Improvement Program
Task 5.2 - Intergovernmental Planning and Coordination

Requested Action: Review and recommend the proposed improvements for I-95, recommend with conditions, or do not recommend.

Staff Recommendation: It is recommended that the I-95 Multimodal Master Plan by FDOT be reviewed, and the proposed improvements be recommended based on the review.

Attachments

- Staff Report
- I-95 Multimodal Master Plan Presentation



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MEMORANDUM

TO: Bicycle-Pedestrian Advisory Committee (BPAC)

THROUGH: Peter Buchwald
Executive Director

FROM: Marceia Lathou
Transit Program Manager

DATE: March 11, 2019

SUBJECT: I-95 Multimodal Master Plan

BACKGROUND

The Florida Department of Transportation (FDOT) is developing a Multimodal Master Plan for the segment on I-95 from the Palm Beach/Martin County line to the Indian River/Brevard County line, a distance of approximately 71 miles. The Plan is an integral part of the continuing process for the development of the Strategic Intermodal System (SIS) and in reaching overall regional mobility goals through short and long-term capacity and operational improvements. The expected completion of the plan is December 2019.

ANALYSIS

The St. Lucie Transportation Planning Organization (TPO) Staff has participated in the development of the I-95 Multimodal Master Plan to ensure that the proposed improvements eventually recommended by the Plan are consistent with the TPO's plans and programs and the vision of the TPO Board. Staffs from the local municipalities and St. Lucie County also have participated in the development of the Plan.

As potential improvements to I-95 within the TPO area have been identified by the I-95 Multimodal Master Plan Team, it is appropriate for these improvements to be reviewed by the TPO Advisory Committees and recommendations be provided to the TPO Board based on the review of the

improvements. Therefore, FDOT will present the Plan to the advisory committees that includes the improvements for review.

RECOMMENDATION

It is recommended that the I-95 Multimodal Master Plan by FDOT be reviewed, and the proposed improvements be recommended based on the review.

SR-9/I-95 Multimodal Master Plan

(from Palm Beach/Martin County Line to Indian River/Brevard County Line)

ST LUCIE TPO TAC and CAC Meetings

Coco Vista Centre
466 SW Port St Lucie Blvd Suite 111, Port St Lucie, FL 34953

March 19, 2019



Outline

- » Project Overview
- » Schedule & Next Steps
- » I-95 Mainline Concept
- » Interchange Concepts

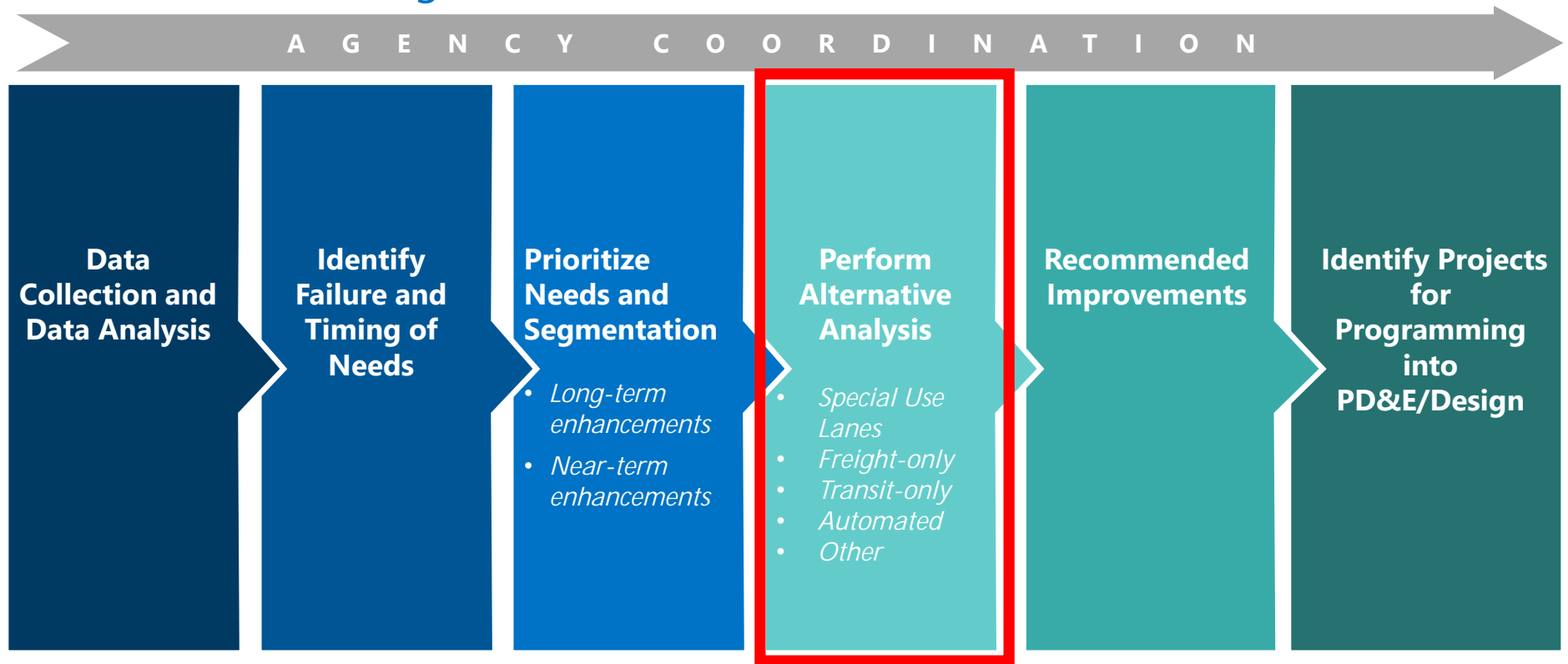
Project Overview

- » Project Limits & Study Area
 - 71-mile I-95 corridor
 - 6 lanes; 8 lanes from SR 70 to Indrio Rd
 - 15 interchanges including Oslo Road interchange
 - Explore Multimodal Alternatives
 - Identify Needs and Their Timing
 - Short term
 - Long Term (2045)

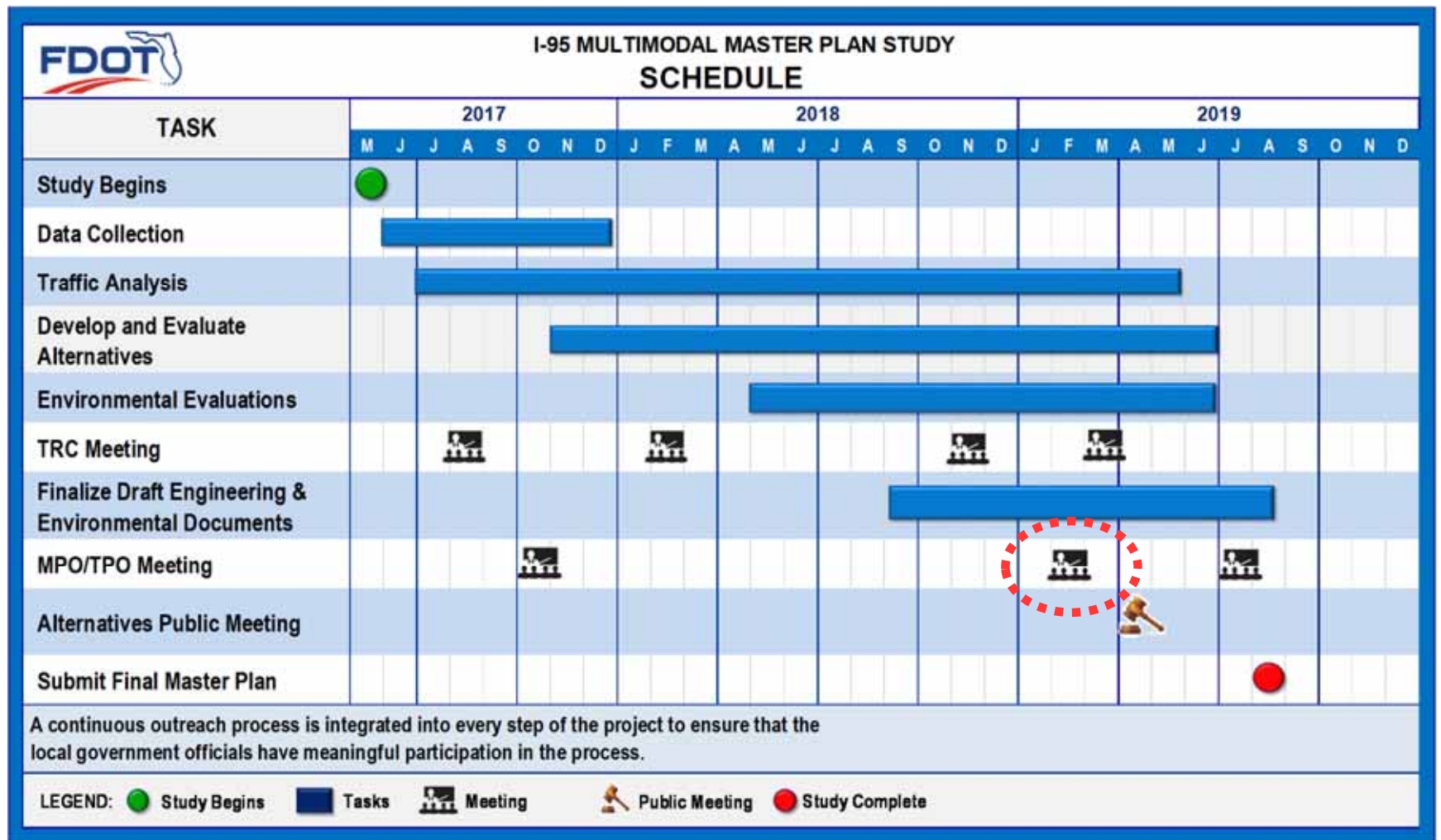


Multimodal Master Plan - Process

Mainline & Interchange Influence Areas



Project Schedule



Next Steps

- » Finalize & Refine Conceptual Alternatives
- » Finalize Future Build Analysis
 - Freeway
 - Interchanges
- » Report Preparation
 - Traffic Element
 - Facility Enhancement Element
 - Facility Operations and Preservation Element
 - Environmental Element
 - Master Plan



Next Steps, cont.

- » Ongoing TAC/CAC & TPO Meetings
 - St Lucie County TPO meeting is April 3rd
- » TRC Meeting #4 on April 17, 2019
- » Alternatives Public Meeting on May 8, 2019
- » **TAC/CAC & TPO Meetings in Summer 2019**

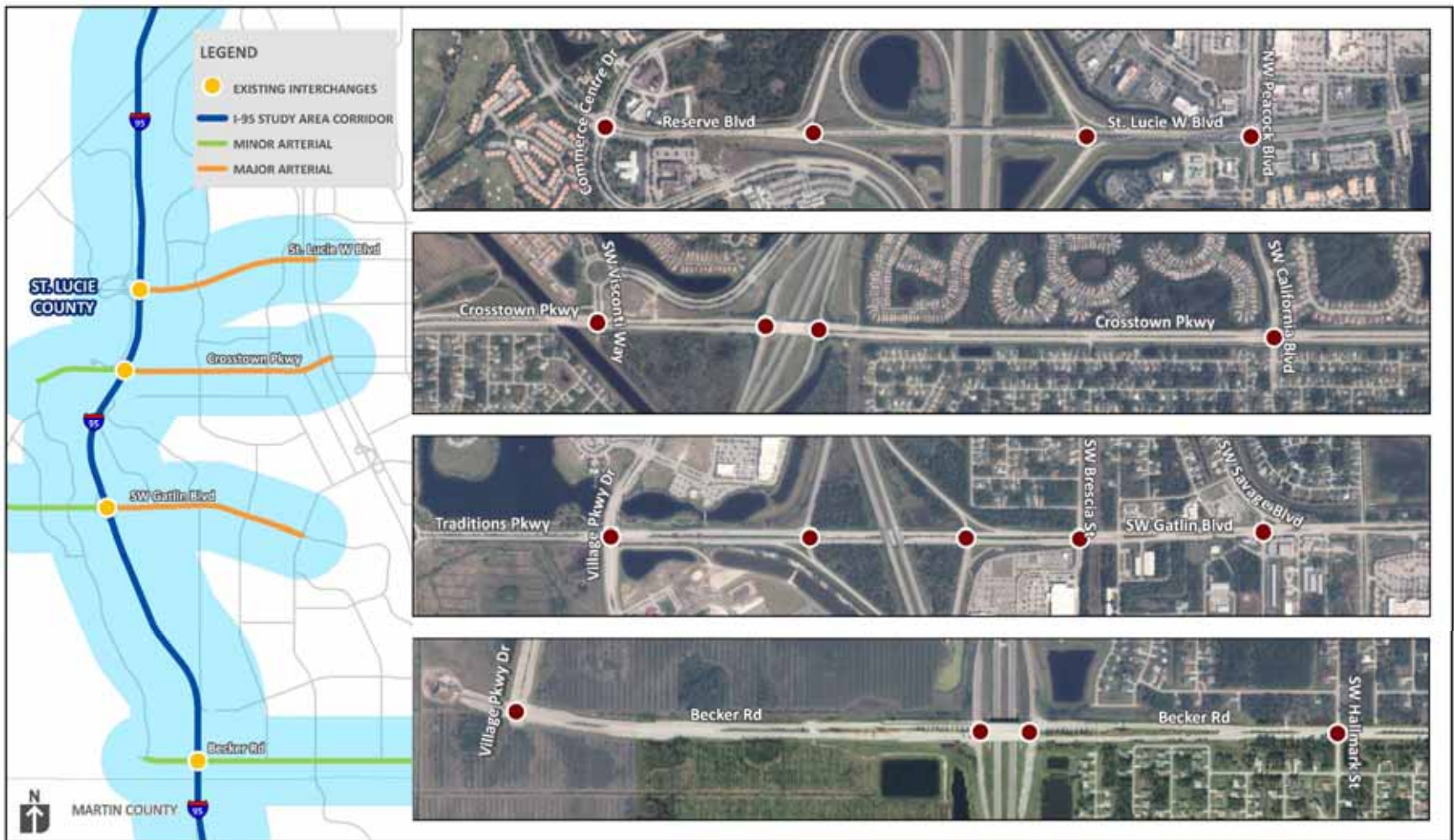


I-95 Mainline Capacity Needs

- » From Palm Beach County line to SR 70/Okeechobee Rd
- » Add 4th general purpose lane in each direction
- » Widen to the inside
- » Timing of Need
 - by 2030



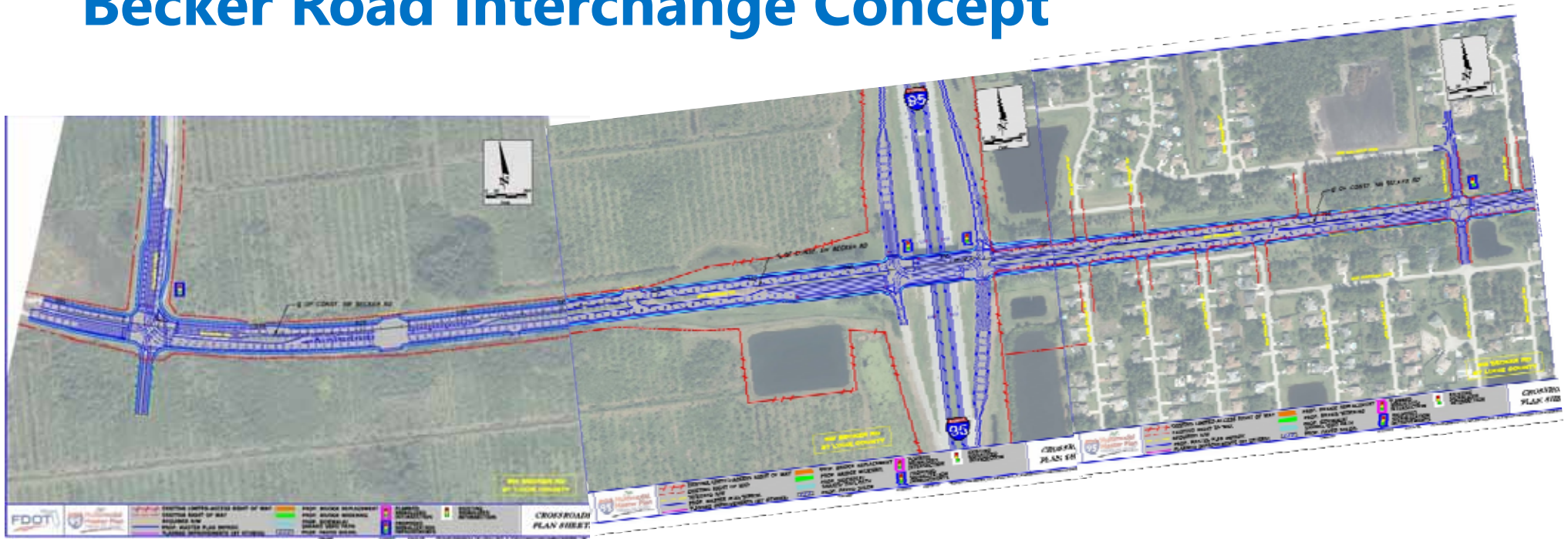
Interchange Study Areas (south St Lucie County)



Interchange Study Areas (north St Lucie County)

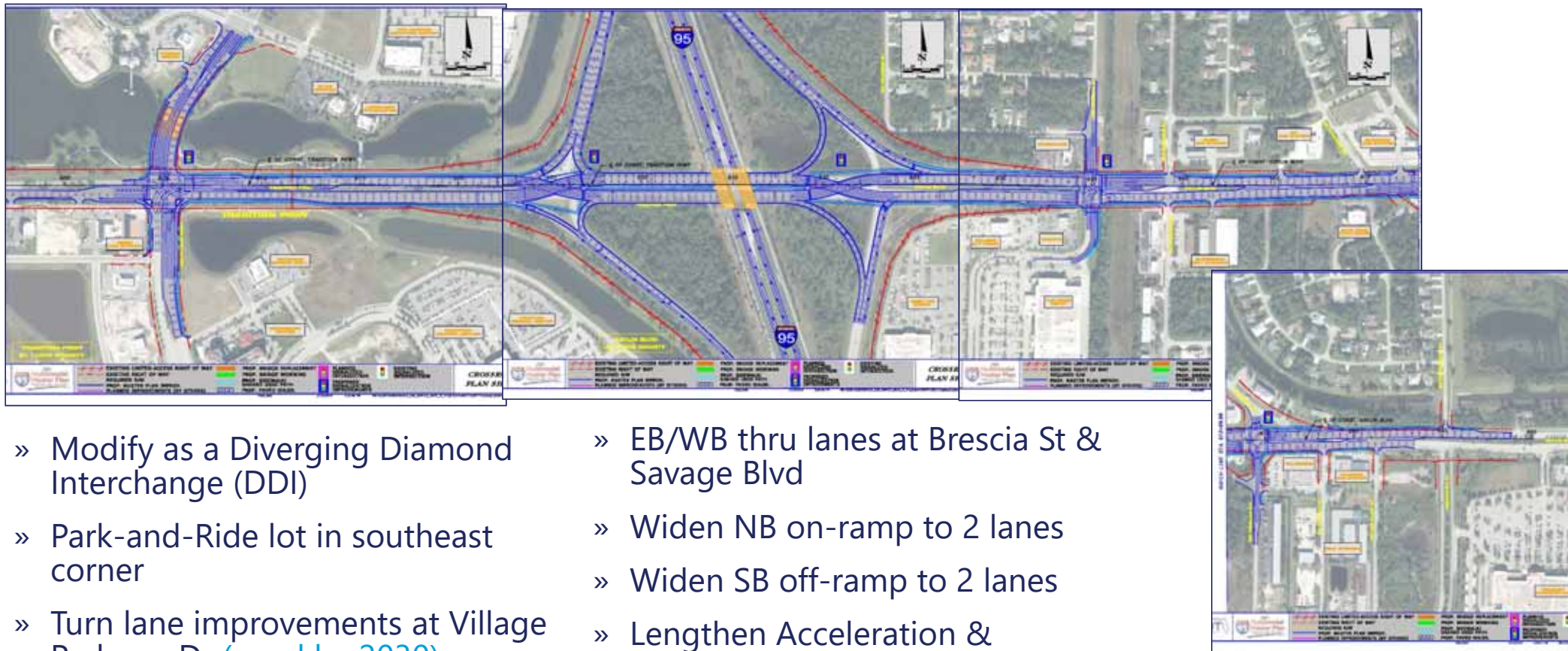


Becker Road Interchange Concept



- » Turn lane improvements at ramp terminals
 - Need by 2045
- » EB/WB Thru lane improvements at Hallmark St east of I-95
 - Need by 2045
- » SB turn lane at Village Parkway intersection west of I-95
 - Need by 2030
- » No Ramp Modifications Needed

Gatlin Boulevard Interchange Concept



- » Modify as a Diverging Diamond Interchange (DDI)
- » Park-and-Ride lot in southeast corner
- » Turn lane improvements at Village Parkway Dr (need by 2030)

- » EB/WB thru lanes at Brescia St & Savage Blvd
- » Widen NB on-ramp to 2 lanes
- » Widen SB off-ramp to 2 lanes
- » Lengthen Acceleration & Deceleration lanes
 - Need by 2045

Crosstown Parkway Interchange Concept



- » Turn lane improvement at ramp terminals
- » Improvements at California Blvd intersection east of I-95
 - Need by 2045
- » Braid NB on-ramp and widen to 2 lanes
- » Braid SB off-ramp and widen to 2 lanes
 - Need by 2030

St Lucie West Boulevard Interchange Concept



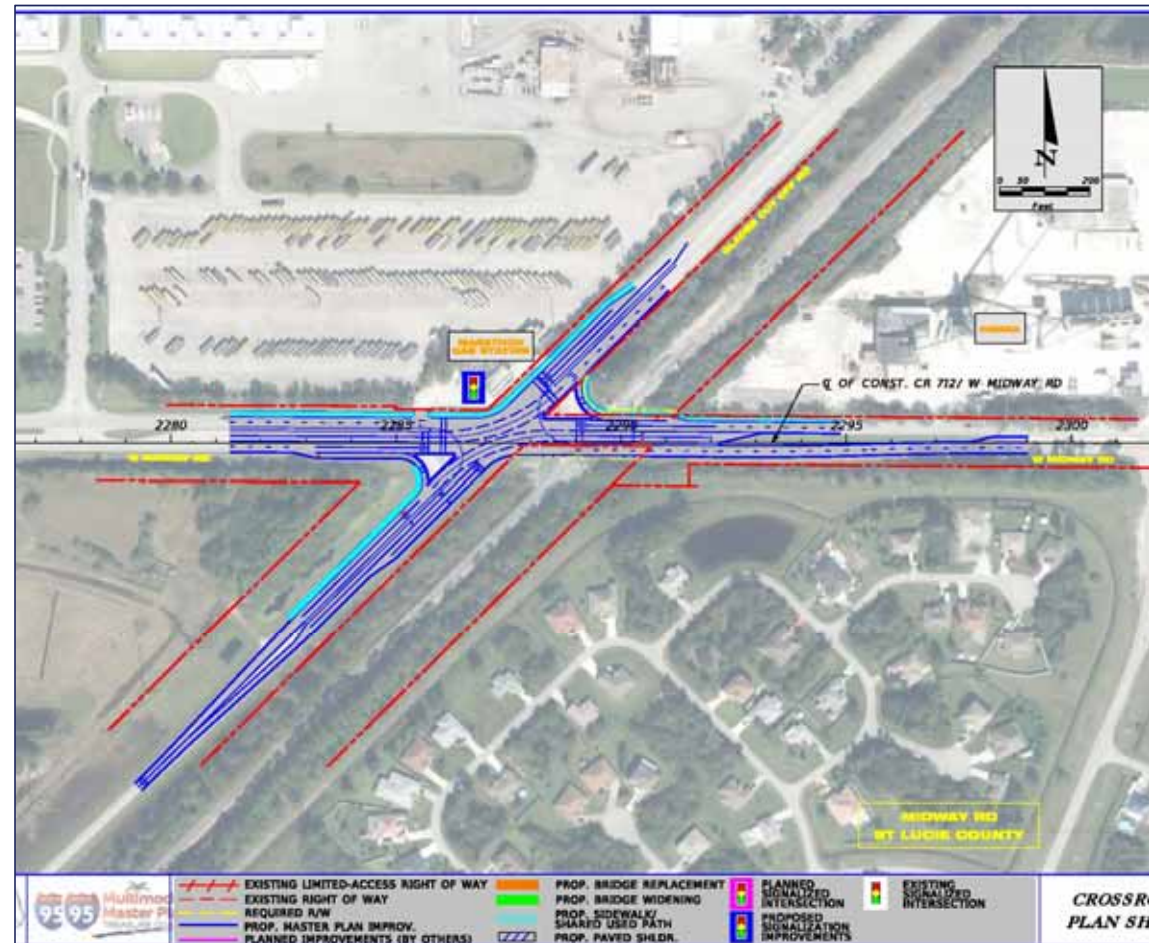
- » Already planned bridge widening (FM 435337-1, *expected by 2022*)
- » Channelizing NB off-ramp movements to Peacock Blvd
- » Turn lane improvement at NB ramp terminal
 - *Need by 2045*
- » Turn lane improvement at Peacock Blvd
- » Braid NB off-ramp and widen to 2 lanes
- » Braid SB on-ramp and widen to 2 lanes
- » Combine SB Loop on-ramp with SB Slip on-ramp
 - *Need by 2030*

- » Braid NB & SB on- and off-ramps
 - Need by 2030
- » Heavy weaving noted by County & City officials
- » Local interchange-to-interchange trips
- » Parallel Access via
 - Commerce Center Dr (west of I-95)
 - California Blvd (east of I-95)



Midway Road Interchange Concept

- » No interchange improvements needed
- » Turn lane improvements at Glades Cut-Off Rd
 - Need by 2045



SR 70/Okeechobee Road Interchange Concept #1

- » **Short Term Concept**
- » Repurpose Current Lanes
 - 2 WB lanes to enter I-95 ramps
- » Improves Lane Utilization
 - Need by 2030



SR 70/Okeechobee Road Interchange Concept #2



- » **Long Term Concept**
- » Diverging Diamond Interchange
- » Turn lane improvements at Jenkins Rd
- » Balanced Lane Utilization
 - Need by 2045

SR 68/Orange Avenue Interchange Concept

- » No interchange improvements needed
- » EB right-turn lane improvement at SB on-ramp to I-95
 - Need by 2030

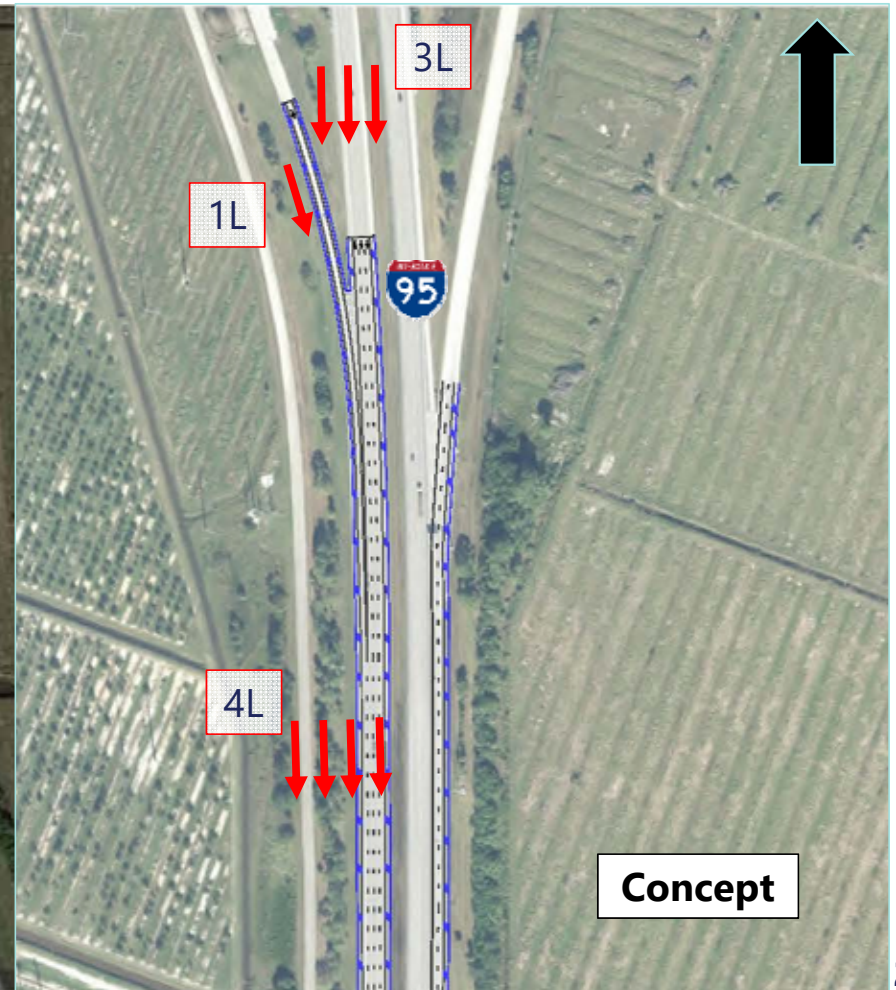


- » No interchange improvements needed
- » Use SB on-ramp to add I-95 lane without merging



SR 614/Indrio Road Interchange Concept, cont

- » Modify SB on-ramp to eliminate merging
- » Maintains lane continuity



Contact Information

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THANK YOU!



AGENDA ITEM SUMMARY

Board/Committee:	Bicycle-Pedestrian Advisory Committee (BPAC)
Meeting Date:	March 21, 2019
Item Number:	6b
Item Title:	Transit Development Plan (TDP) Major Update Service Improvements
Item Origination:	Florida Statutes
UPWP Reference:	Task 3.2 – Transit Planning
Requested Action:	Review and recommend the proposed transit service improvements, recommend with conditions, or do not recommend.
Staff Recommendation:	It is recommended that the TPO Advisory Committees review the proposed transit service improvements and recommend them based on the review.

Attachments

- Staff Report
- Existing and Proposed Bus Routes and Passenger Rail Service Map



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MEMORANDUM

TO: Bicycle-Pedestrian Advisory Committee (BPAC)

THROUGH: Peter Buchwald
Executive Director

FROM: Marceia Lathou
Transit Program Manager

DATE: March 11, 2019

SUBJECT: Transit Development Plan (TDP) Major Update
Service Improvements

BACKGROUND

A Transit Development Plan (TDP) is required by the Florida Department of Transportation (FDOT) for the receipt of funding through the Public Transit Block Grant Program. A TDP is the public transportation provider's planning, development, and operational guidance document and is based on a 10-year planning horizon. A Major Update is required every five years. Annual updates in the form of progress reports on the 10-Year Implementation Program of the TDP also are required.

In St. Lucie County, the Board of County Commissioners (BOCC) contracts with Community Transit, a division of the Council on Aging of St. Lucie, Inc., for public transportation services. The St. Lucie County TDP Major Update is endorsed by the TPO Board and adopted by the BOCC.

Task 3.2 of the St. Lucie Transportation Planning Organization (TPO) FY 2018/19 – FY 2019/20 Unified Planning Work Program (UPWP) includes activities related to the provision of technical and planning assistance to the transit provider in order to maintain the BOCC's eligibility for the continued receipt of Federal and State transit funds. These activities include support of the TDP Major Update and Annual Progress Reports.

ANALYSIS

The TPO and St. Lucie County initiated the TDP Major Update process in August 2018. The project's extensive public outreach includes focus groups, surveys, and community meetings. Staff's presentation to the TPO Advisory Committees will focus on the transit service improvements listed below and shown on the attached map.

Service Expansion – All Routes

- Half-hour frequencies
- Monday – Saturday operation
- Hours of operation: 6 am – 8 pm

New Routes

- Fort Pierce/Port St. Lucie Express (25th Street) – from Fort Pierce Intermodal Station to Port St. Lucie Intermodal Station
- Midway Road – from Weatherbee Road to Torino Parkway
- Crosstown Parkway – from The Landings in Tradition to the Civic Center
- Port St. Lucie Boulevard – from Gatlin Boulevard to Paar Drive
- Tradition area micro-transit flex service
- Palm Beach Express – from I-95/Gatlin Boulevard Jobs Express Terminal to West Palm Beach Intermodal Transit Center
- Passenger rail service from Orlando to Miami
- Virginia Avenue – from U.S. 1 to Kings Highway
- Torino Parkway micro-transit flex service
- Indian River Estates micro-transit flex service

RECOMMENDATION

It is recommended that the TPO Advisory Committees review the proposed transit service improvements and recommend them based on the review.

Indian River County

SLC Existing and Proposed Bus Routes
and Passenger Rail Service

- Existing Bus Routes
- Proposed Bus Routes
- Proposed Passenger Rail Service
- Micro-transit Flex



0 1 2 Miles

ATLANTIC OCEAN

Martin County



AGENDA ITEM SUMMARY

Board/Committee:	Bicycle-Pedestrian Advisory Committee (BPAC)
Meeting Date:	March 21, 2019
Item Number:	6c
Item Title:	2045 Projected Population for St. Lucie County
Item Origination:	Greater Treasure Coast Regional Planning Model (GTCRPM)
UPWP Reference:	Task 2.1 - Travel Demand Modeling
Requested Action:	Review and recommend the projected population for St. Lucie County for 2045, recommend with conditions, or do not recommend.
Staff Recommendation:	Based on the projected average annual growth rate of the Bureau of Economic and Business Research (BEBR) High Projection most closely approximating the actual average annual growth rate of population in St. Lucie County from 1995 to 2017, it is recommended that the BEBR High Projection of 525,100 be recommended to the TPO Board as the 2045 projected population of St. Lucie County.

Attachments

- Staff Report

MEMORANDUM

TO: Bicycle-Pedestrian Advisory Committee (BPAC)

FROM: Peter Buchwald
Executive Director

DATE: March 12, 2019

SUBJECT: 2045 Projected Population for St. Lucie County

BACKGROUND

The development of the Greater Treasure Coast Regional Planning Model (GTCRPM), which is an activity-based travel demand model, and the development of the Long Range Transportation Plan (LRTP) for the St. Lucie Transportation Planning Organization (TPO) both utilize population projections to forecast future growth, traffic volumes, and transportation needs. The 2045 updates for the GTCRPM and the LRTP will utilize a population projection for St. Lucie County for 2045.

The Bureau of Economic and Business Research (BEBR) at the University of Florida produces Florida's official State and local population estimates and projections and has been making population projections for Florida and its counties since the 1970s. These estimates and projections are used for distributing state revenue-sharing dollars to cities and counties in Florida and for budgeting, planning, and policy analysis by State and local government agencies, businesses, researchers, the media, and members of the general public.

To account for uncertainty regarding future population growth, BEBR publishes three series of projections for future years. For 2045, BEBR has published the following three population projections for St. Lucie County:

Low:	360,400
Medium:	431,200
High:	525,100

BEBR believes the medium series is the most likely to provide accurate forecasts in most circumstances, but the low and high series provide an indication of the uncertainty surrounding the medium series. It should be noted that these projections refer solely to permanent residents of Florida, and they do not include tourists or seasonal residents.

Another population projection for 2045 for St. Lucie County results from the extrapolation of the population projection for 2040 from the Go2040 LRTP. This methodology projects a 2045 population of 483,841 for St. Lucie County. It is requested that the four potential population projections be reviewed and a recommendation for a projection for the 2045 population in St. Lucie County be provided to the TPO Board.

ANALYSIS

The following table summarizes the actual populations and growth rates in the adoption years of the last five LRTPs of the TPO and the projected populations and growth rates used in those LRTPs:

LRTP Adoption Year	Actual Population ¹	Actual Average Annual Growth Rate	LRTP Horizon Year	Projected Population	Projected Average Annual Growth Rate
1995	176,229		2020	297,400	2.12%
2000	193,433	1.88%	2025	319,685	2.03%
2005	237,569	4.20%	2030	610,000	3.84%
2010	269,659	2.57%	2035	469,600	2.24%
2015	288,006	1.33%	2040	454,200	1.84%
Current (2017)	298,763	1.85%			
Total Average Annual Growth Rate		2.36%			2.41%

¹U.S. Census Bureau - American Community Survey 5-Year Estimates

As indicated in the table, the actual average annual growth rate of population in St. Lucie County from 1995 to 2017 is 2.36 percent, and the total average of the projected growth rates used in the LRTPs is 2.41 percent.

The average annual growth rates from 2015 to 2045 for the potential 2045 population projections are as follows:

2045 Projection Source	Projected Population	Projected Average Annual Growth Rate
BEBR Low	360,400	0.75%
BEBR Medium	431,200	1.35%
Go2040 LRTP Extrapolation	483,841	1.74%
BEBR High:	525,100	2.02%

RECOMMENDATION

Based on the projected average annual growth rate of the BEBR High Projection most closely approximating the actual average annual growth rate of population in St. Lucie County from 1995 to 2017, it is recommended that the BEBR High Projection of 525,100 be recommended to the TPO Board as the 2045 projected population of St. Lucie County.



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AGENDA ITEM SUMMARY

Board/Committee: Bicycle-Pedestrian Advisory Committee (BPAC)

Meeting Date: March 21, 2019

Item Number: 7a

Item Title: Bicycle Facilities Map Update

Item Origination: Unified Planning Work Program (UPWP)

UPWP Reference: Task 3.5 – Complete Streets Planning

Requested Action: Discuss and provide comments to Staff

Staff Recommendation: It is recommended that the map be reviewed and discussed by the Committee and comments be provided to staff.

Attachments

- Staff Report
- Draft Bicycle Facilities Map



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MEMORANDUM

TO: Bicycle-Pedestrian Advisory Committee (BPAC)

THROUGH: Peter Buchwald
Executive Director

FROM: Yi Ding
Transportation Systems Manager

DATE: March 14, 2019

SUBJECT: Bicycle Facilities Map Update

BACKGROUND

One of the tasks of the Unified Planning Work Program of the St. Lucie TPO is Task 3.5 – Complete Streets Planning. The purpose of this task is to review, update, and implement the St. Lucie Walk-Bike Network, build upon previous bicycle/pedestrian/greenway planning efforts, and continue the ongoing planning and coordinating efforts which support the provision of bicycle, pedestrian, and greenway facilities. Task 3.5 includes an update of the Bicycle Facilities Map.

ANALYSIS

The Bicycle Facilities Map was initially developed in 2010 and updated in 2014 by Kimley-Horn and Associates, Inc. as a user-friendly document that depicts the location of bicycle facilities and presents a color-coded depiction of bicycle suitability ratings based on interaction with traffic. The map will be available to the public free of charge and is intended to serve as a reference to bicyclists for traveling on the roadways of St. Lucie County.

The data collected in 2014 was used as the base data and updated accordingly by the staff in the preparation of the new map. Besides the most recent bicycle facilities information, the new map also includes the basic information about

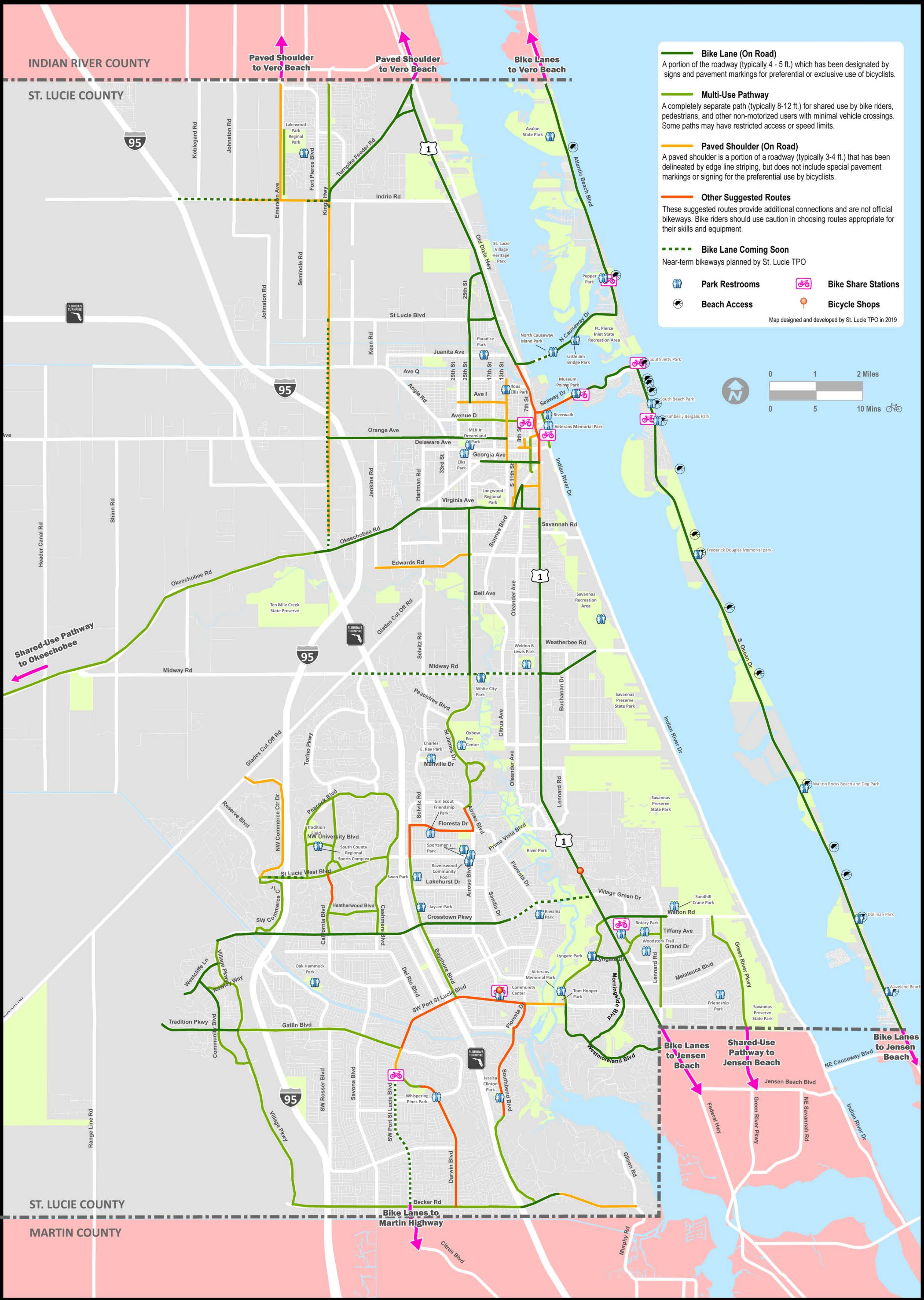
cycling as well as the St. Lucie Bike Share program. The information displayed on the Bicycle Facilities Map is part of the TPO's overall bicycle and pedestrian enhancement goal and can be used for follow-up items such as assessing bicycle and pedestrian connectivity and accessibility.

RECOMMENDATION

It is recommended that the draft map be reviewed and discussed by the Committee and comments be provided to staff.

St. Lucie

Transportation Planning Organization





Bike to Work Tips

Choose your Route



Plan your route considering distance, traffic, road width, and incline. Try riding new routes on the weekend in the same lane at the same time of day you would ride in or drive the route.

Dress for the Ride



Try riding in comfortable clothes or your work clothes at a relaxed pace. For longer commutes, consider wearing breathable fabrics. Store a spare set of clothes at your workplace or bring extra clothes on the day you ride.

Stay Fresh



Many workplaces offer shower facilities to their employees. If your workplace does not have these facilities, try a local gym or use fresh wipes and other toiletries after your ride.

Prevent Flats



Keep your tires inflated at the pounds per square inch (PSI) amount indicated on the side of your bike's tire. Don't hesitate to replace your bike's tires when they are worn.

Bring your Stuff



Consider Installing a rear rack, front rack, and/or basket on your bicycle. High quality, waterproof panniers can double your storage space. Backpacks and messenger bags work well also.

Keep a Penny



To keep your skirt down while you ride, try wrapping a penny in your skirt and tying it with a rubber band. This will keep your skirt from flying up while you ride.

Be Prepared



Carry a small set of tools (Allen wrenches or tire levers) for quick bicycle repairs while you are on the road. Because you can't predict when you will get a flat tire, you should carry patch kits and/or new tubes.

Have Fun



Riding your bicycle to work is a great way to start your day, get some exercise and experience your city! Consider organizing a group ride or check out a "bike train" to work.

Check Your Bike



Helmet

Always wear a helmet when cycling.



Lamps

Your front headlight must be a white or yellow light. Your rear tail light must be red and other road users should see your front light. Use flashing lights on your bike.



Tires

Inflate your tires to the correct pressure which is shown on the side of the tire. Use a proper pump and always replace worn tires.



Gears

Check that the gears are working correctly and adjust as needed.



Bell

Always make sure your bell works and that your hands can easily reach it.



Pedals

Lubricate your pedals and remember to replace worn threads.



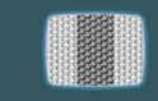
Chain

Keep the chain at the correct tension, clean and oil well to prevent snapping.



Spokes

Keep your spokes tight and always replace bent or broken spokes immediately.



Reflectors

Fit your bicycle with RED rear reflectors and amber reflectors on the pedals. Always keep your reflectors clean.



Seat

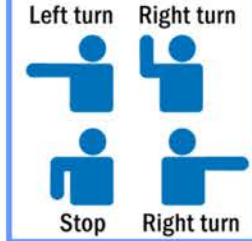
Keep your seat properly adjusted to a height where you are comfortable and your feet can reach the pedals.



Handlebars

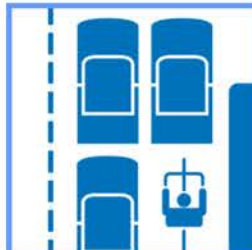
Make sure your handlebars and grips are properly adjusted and tight.

Rules of the Road



Use Hand Signals

Hand signals communicate with motorists what you intend to do; turns require a hand signal for 100 feet beforehand



Ride on the Right

Ride on the right side of the road, in the same direction as traffic, at a safe distance from the curb and gutter

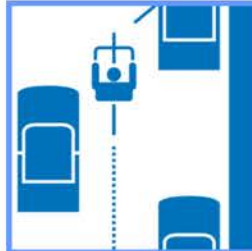
Never ride against the flow of traffic



Stay off the Sidewalks

Sidewalks are designed for pedestrians and not for bicyclists who are traveling faster than walking speeds

Ride where motorists expect you to be



Ride in a Straight Line

Maintain a car door's width away from parked cars

Avoid dodging in between cars

Watch for parked motorists swinging their doors open

About This Map

The St. Lucie TPO Bicycle Facilities Map is intended to serve as a reference for bicycling on roads within the St. Lucie TPO area. The map includes the locations of designated bike lanes, multi-use pathways, and paved shoulders within the St. Lucie TPO area.

Bicyclists should remain alert for hazardous conditions at all times, and every bicyclist is encouraged to obtain appropriate safety equipment and observe all traffic laws.

The St. Lucie TPO, and the individuals involved in the development of this map assume no liability for the personal safety of individuals using this map.

Scan the QR code below to download this map. For a free copy of this map or more information on bicycling in St. Lucie County, contact the St. Lucie TPO at (772) 462-1593 or visit the following web site.

www.stlucietpo.org



466 SW Port St. Lucie Boulevard Suite III
Port St. Lucie, FL 34953

The St. Lucie TPO satisfies the requirements of various nondiscrimination laws and regulations including Title VI of the Civil Rights Act of 1964. Public participation is welcomed without regard to race, color, national origin, age, sex, religion, disability, income, or family status. Persons wishing to express their concerns about nondiscrimination should contact Marceia Lathou, the Title VI/ADA Coordinator of the St. Lucie TPO, at 772-462-1593 or via email at lathoum@stlucietpo.org.

Kreyol Ayisyen: Si ou ta renmen reserwa enfòmasyon sa a nan lang Kreyol Ayisyen, tanpri rele nimewo 772-462-1593.

Español: Si usted desea recibir esta información en Español, por favor llame al 772-462-1593.

Bicycle Facility Types

Bike Lane (On Road)



Multi-Use Pathway



Paved Shoulder (On Road)



Bike Share

Don't let the lack of a bike stop you from pedaling around St. Lucie County. If you don't have your own bike, you can rent a seven-gear bike for \$1 per hour at 9 bike share stations conveniently located throughout the County. All bikes are equipped with built-in locks to secure it to a fixed object, front and rear lights, adjustable seats, and a front basket. Helmets are not provided, but officials strongly encourage adults to wear them and Florida law requires cyclists 16 and younger to wear them. For more information on bike share and to sign up, visit: www.bike.zagster.com/stlucie/



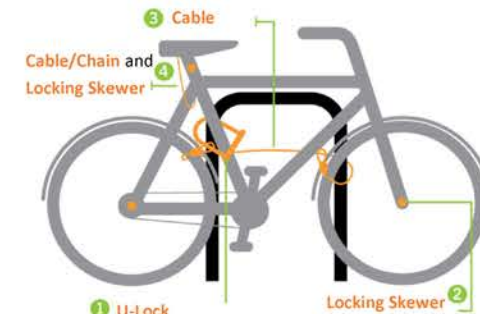
Bicycles can be returned to any of the stations, meaning residents can even use the Treasure Coast Connector, as all fixed route buses feature bike racks. To obtain more information on bus services please call 772-464-8878 or visit www.treasurecoastconnector.com



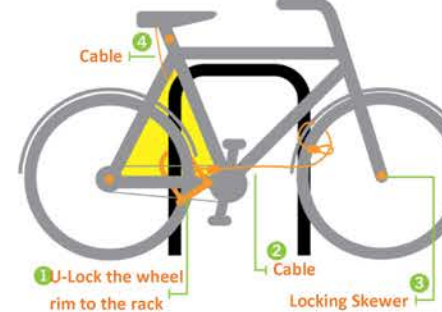
Scan the QR code to download the bus map

Lock Your Bike

Using Multiple Locks



Using the Rear Triangle



Removing the Front Wheel



Bike Resources

Bicycle Shops in St. Lucie County

Sprockets Adventures
347 SE Port St. Lucie Blvd.
Port St. Lucie FL, 34984
(772) 336-3399

Cycle Werks
8611 South US Highway 1
Port St. Lucie, FL 34952
(772) 446-7771

Contacts

To report emergencies.....911

To report non-emergencies:

St. Lucie County Sheriff.....(772) 462-7300
Florida Highway Patrol.....*FHP (*347)
City of Fort Pierce Police Department.....(772) 461-3820
City of Port St. Lucie Police Department.....(772) 871-5000

For local bicycling information:

St. Lucie TPO Bicycle/Pedestrian Planner.....(772) 462-1593
Bicycle Club of Port St. Lucie.....(772) 621-7487

For regional/State bicycling information:

FDOT Bicycle/Pedestrian Program – District 4.....(954)-777-4418
FDOT State Bicycle/Pedestrian Coordinator.....(850) 245-1500

Additional Resources

Alliance for Biking & Walking...www.peoplepoweredmovement.org
America Bikes.....www.americabikes.org
Bicycling Life.....www.bicyclinglife.com
Bikes Belong.....www.bikesbelong.org
Bike Florida.....www.bikeflorida.org
Consumer Product Safety Commission.....www.cpsc.gov
Florida Bicycle Association.....www.floridabicycle.org
Florida Dept. of Transportation (FDOT).....www.dot.state.fl.us
Florida SUN Trail Program.....www.floridasuntrail.com
FDOT Safety Office.....www.dot.state.fl.us/safety
League of American Bicyclists.....www.bikeleague.org
KidsHealth (Nemours Foundation).....www.kidshealth.org
National Center for Bicycling & Walking.....www.bikewalk.org
National Highway Traffic Safety Administration.....www.nhtsa.gov
Pedestrian and Bicycle Information Center...www.bicyclinginfo.org
Rails-To-Trails Conservancy.....www.railstrails.org
Snell Memorial Foundation.....www.smf.org
USA Cycling (USAC).....www.usacycling.org

Safety Tips

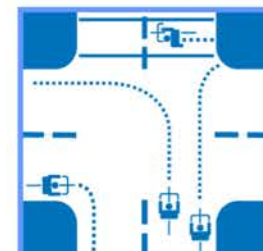


Be Visible & Dress Appropriately

Bicycles riding at night should have a white headlight in the front, visible from at least 500 feet away and a red tail reflector visible in a vehicle's low beams from 300 feet away

Wear bright clothing during the day and reflective clothing at night

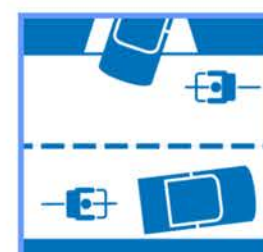
Always wear a hard-shell helmet whenever you ride; fit the helmet so the front is just above the top of the eyebrows



Two Ways to Turn Left

1) Like a pedestrian, ride straight to the far-side crosswalk and walk your bike across

2) Like a motorist, signal, move into the left lane and turn left



Be Alert

Watch for cars pulling out and use caution when approaching driveways and parked cars

Assume that drivers do not see you, and use caution when approaching them